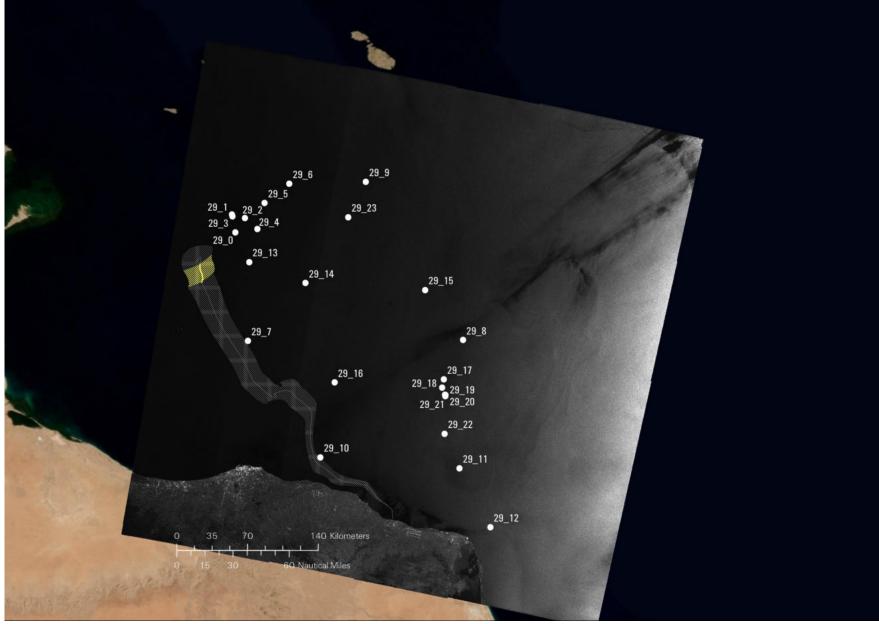
BORDER FORENSICS Documenting Border Violence at the Maritime Borders of Europe

Charles Heller, co-director of Border Forensics, Geneva Research Fellow, Graduate Institute, Geneva



SAR image analysis, 29 March 2011

FORENSIC OCEANOGRAPHY: LEFT-TO-DIE BOAT CASE

FIGURES

SAR ANALYSIS - 29 MARCH

Return 29_13 was between 20 and 34 NM away from the ship's drift, while return 29_3 was between 25 and 33 NM away and return 29_1 was between 32 and 38 NM away.

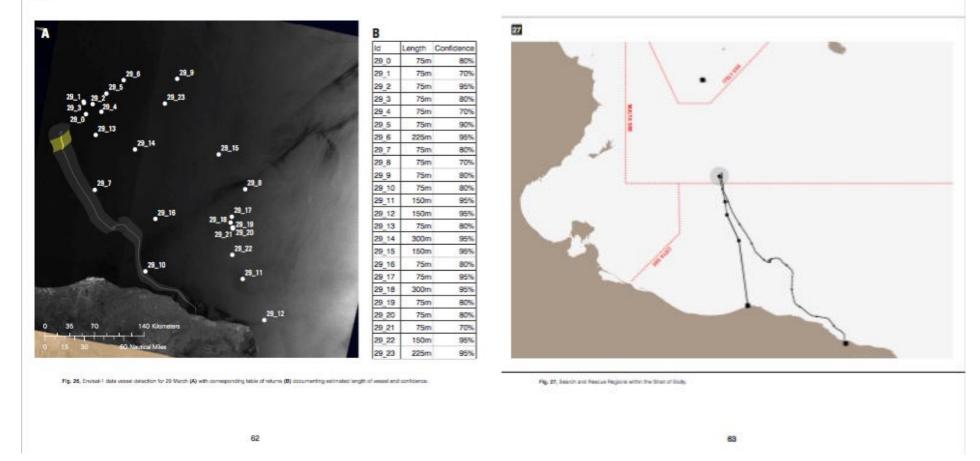
FORENSIC OCEANOGRAPHY: LEFT-TO-DIE BOAT CASE

SEARCH AND RESCUE ZONES

The area in question is divided into italian, Martese and Turisian Search and Rescue Regions (SAR). SRR have been internationally established for the express purpose of coordinating rescue operations and optimizing their effectiveness, efficiency and safety. States are obligated to exercise SRR services in the area under their responsibility and frequently engage in SAR agreements with neighboring States to coordinate operations and rescue services.

FIGURES

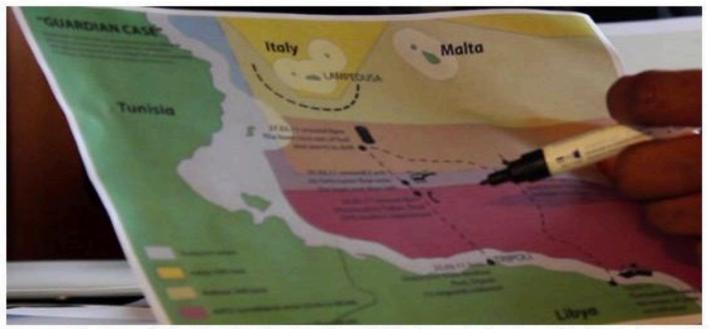
26



HELLER, Ch. and PEZZANI, L. (2012) Report on the Left-to-die boat.

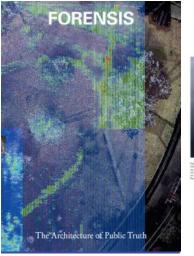
Death of 63 migrants in the Mediterranean: Complaint in France holds the French military to account

11 April 2012



One year after events that led to the deaths of 63 migrants in a boat in the waters off the coast of Libya, 4 survivors, with the support of a coalition of NGOs, filed a complaint in France concerning the responsibility of the French military for failing to assist persons in danger.

Legal complaint against France, FIDH, GISTI, Migreurop, 11 April 2012



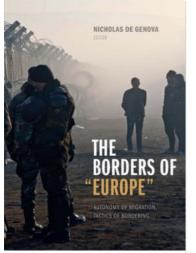
Liquid Traces: Investigating the Deaths of Migrants at the EU's Maritime Frontier Ourles Heller and Lorenze Pezzen



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Forensis. 2014. Ed Weizman. Sternberg Press.



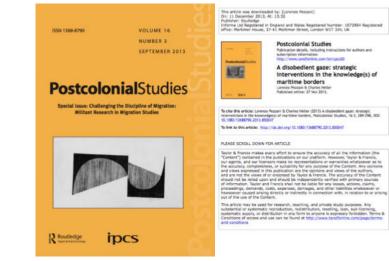


Liquid Traces energy for Double of Migranes at the EUT Maritime Frontier

If gaugedy expression in to see ensemble; the possibility of weining and therefore studied possible or discuss one possibility and possible of the one same small and the absolute challings on spatial analysis. The sources that comes one possible of the comes of our plasme is consisting standing by canons and sources the same is one are our plasme in work, the sea spaces of the output of plasmessing possible of the plasme, manimum discussions, applying disc that "here is no manage" Burdens a syntaxis. The theorem is the output of the same is the same is the same is the same intersoriant resolver same is a brief of the plasme, manimum disc the during disc that the same is no manage" Burdens approximation. The Disc during disc plasme is the same is the same is a same and the volume possible of single-planed neighbors are used in the volume moment of the Disc during disc plasme is the same is the same is a same and a vocume possible of the same is the same is the same is the same is a same and the during disc same and the volume is made in the same is a same and the source have a paraset is a same disc volume. The same base has a source possible during disc same is same and the volume is same in the same and a vocume possible during disc same is same and the volume. The same base has the material base maniholicity of here and the same and the same and the same analy base maniholicity during a same manage during approximation of the fast disc during the volume during during the same approximation of the fast disc during the volume during during during the same approximation of the fast during the volume during during during the same maniholicity during during the same approximation of the same approximation of the same approximation during during during the same man during during

It is an intrative to the chartering poonality this ispant himself that we started the Formack Occastography project in the sammer of acto in an among to document the deaths of nighties as sa and violations of their rights. This andeeror was sparred by the tore demands for accountability that emerged in the

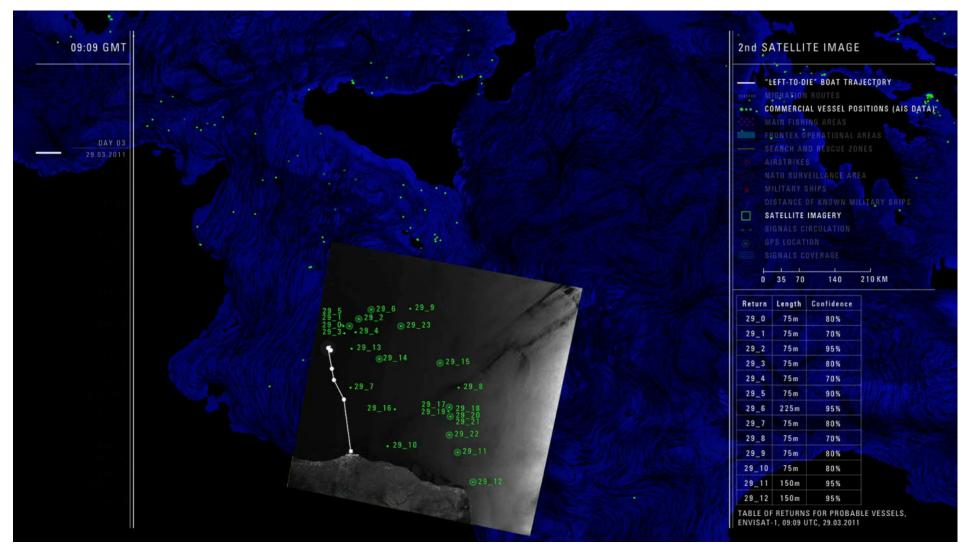
The Borders of "Europe". 2017. Ed. De Genova. Duke University Press.



Postcolonial Studies. 16 (3). 2013.

Revue Européenne des Migrations Internationales. 30 (3-4) 2015.

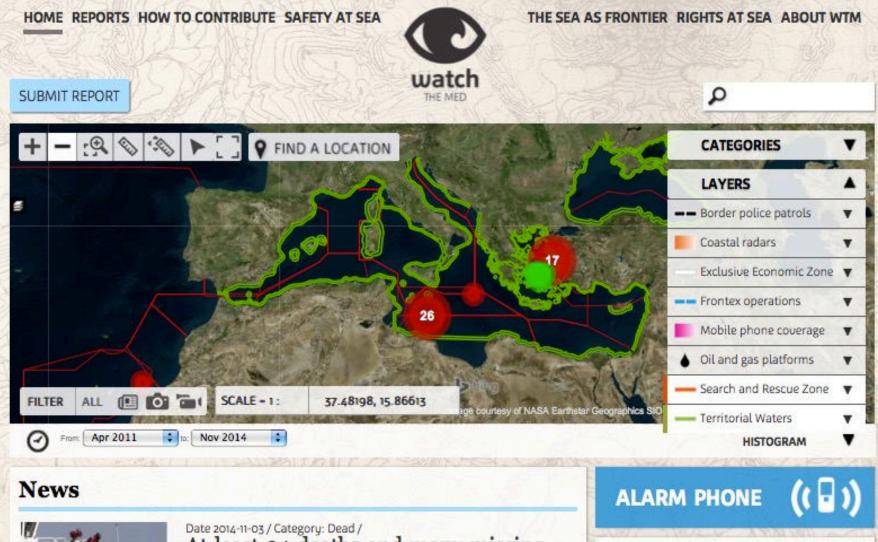
Selected journal articles and chapters based on the Left-to-die boat



Liquid Traces, Charles Heller and Lorenzo Pezzani, 2014.



Liquid Traces (2014), MOMA, "Insecurities" exhibition, New York, 2016



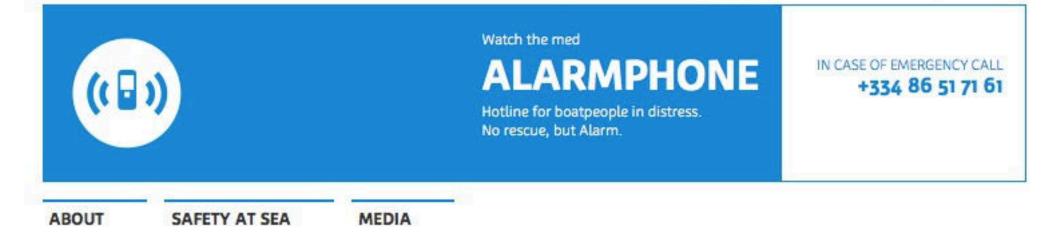
Date 2014-11-03 / Category: Dead / At least 24 deaths and many missing near the Bosphorus strait

At least 24 people have died in the Black Sea when seeking to reach the EU, presumably Romania or Bulgaria. The bodies of 24 passengers... more>

Date 2014-10-05 / Category: Dead / 130 migrants reported dead on anniversary of Lampedusa shipwreck

About

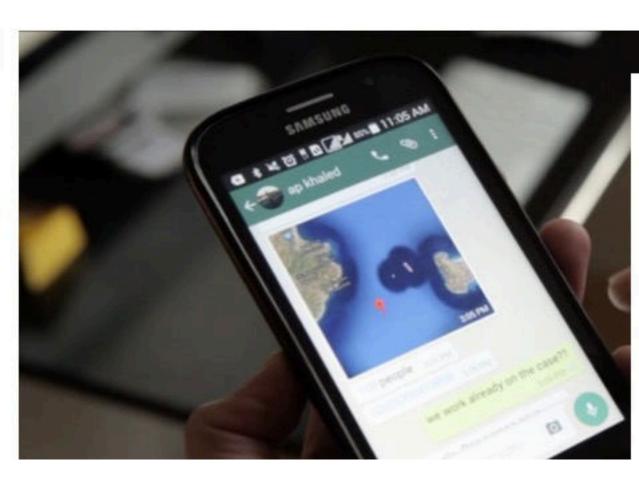
Watch the Mediterranean Sea is an online mapping platform to monitor the deaths and violations of migrants' rights at the maritime borders of the





In the following two vimeo-links you find two short video clips about the transnational project of WatchTheMed-Alarmphone

→ Two Video Clips from and about WatchTheMed-Alarmphone

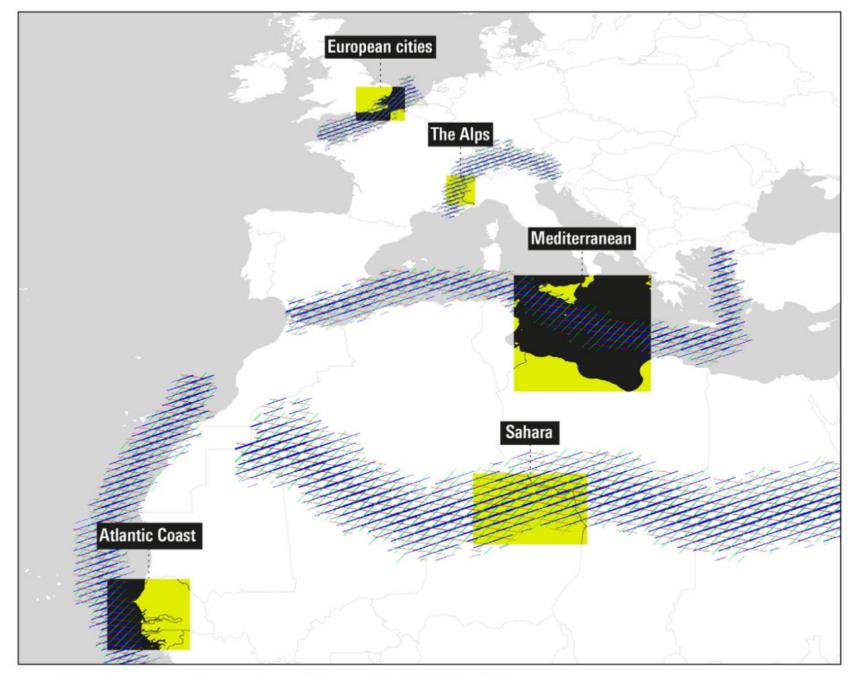


BORDER FORENSICS

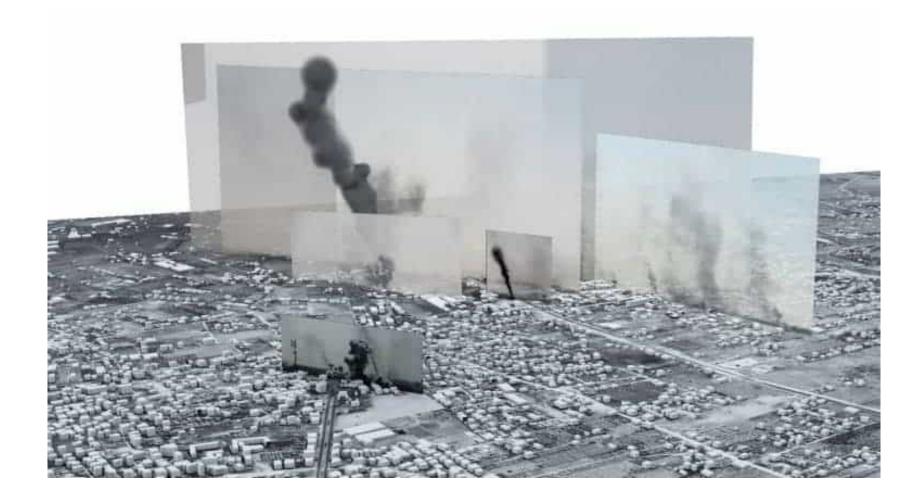


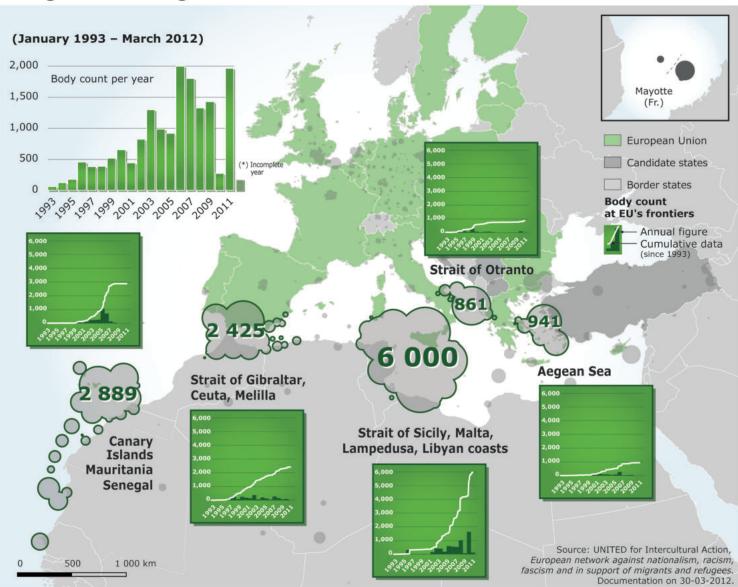
Map of border deaths indicating 46,560 deaths between 2014-2022. Based on IOM data and figure.

BORDER FORENSICS



Border zones investigated by BF in 2021-2023.





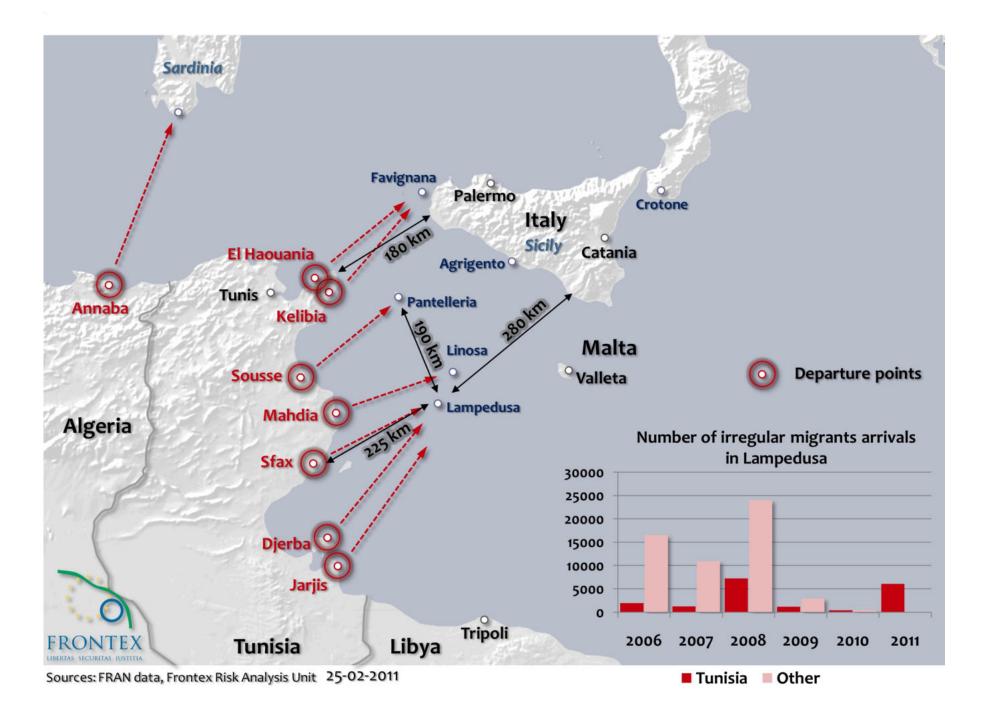
Dangerous Crossings to the South of the EU

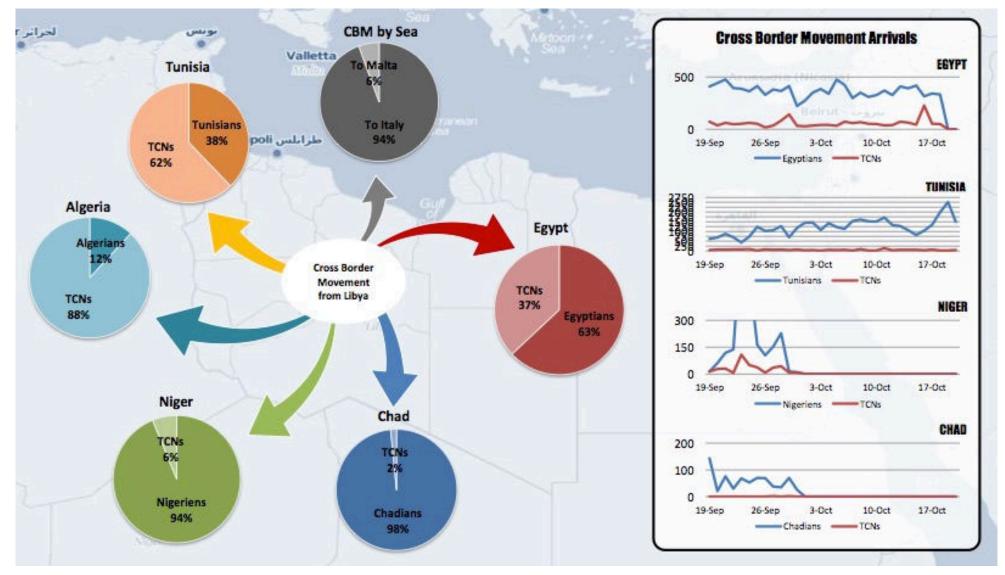
© Nicolas Lambert in Migreurop (2013) Atlas of migration in Europe. A critical geography of migration policies, Oxford, New Internationalist, 150 p. Deaths at EU maritime borders, Migreurop Atlas, 2013



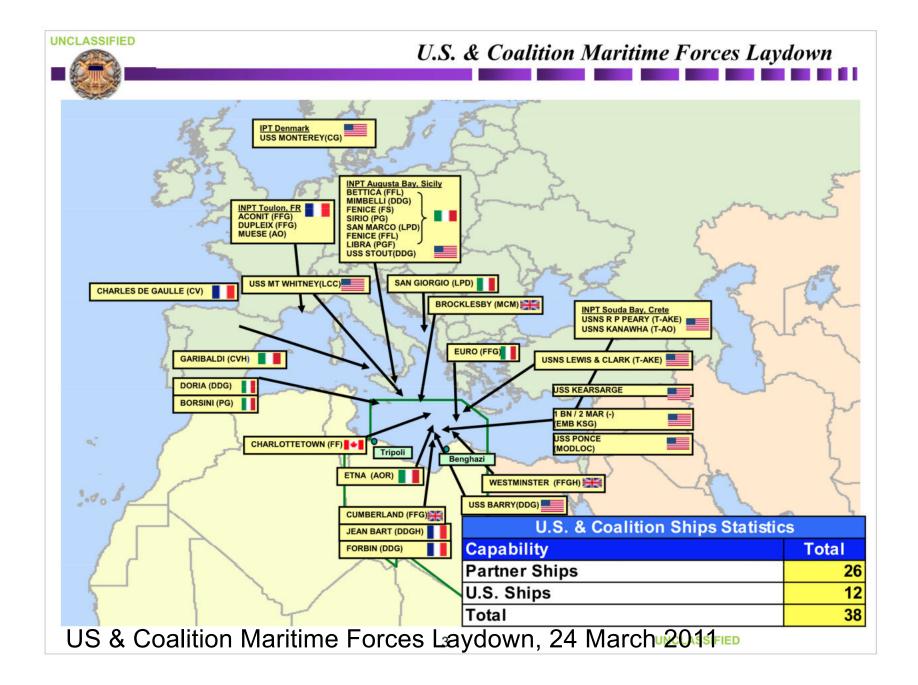
Lampedusa, July 2013







IOM, Migration Crisis from Libya, 20 October 2011



Des centaines de boat people meurent en Méditerranée

Le Gisti va déposer plainte contre l'OTAN, l'Union européenne et les pays de la coalition en opération en Libye

Face aux centaines de naufrages mortels en Méditerranée, peut-on se contenter de dénoncer le silence assourdissant dans lequel des vies disparaissent à nos portes ? Doit-on se résoudre à l'impuissance devant des politiques migratoires auxquelles on ne pourrait rien changer ? Ces noyé es ne sont pas les victimes de catastrophes naturelles, mais de décisions politiques mises en œuvre par des exécutants dont les responsabilités doivent être pointées. Devant ces atteintes au droit le plus fondamental – le droit à la vie – il faut que des procédures soient engagées et que justice soit rendue. Il faut mettre fin à cette hécatombe.

Le Haut Commissariat des Nations unies pour les réfugiés (HCR) a dénombré à la fin de mai quelque 1 500 victimes de noyade parmi les *boat people* qui, depuis février dernier, s'efforcent de gagner l'Europe à partir des côtes du Maghreb et du Machrek.

Ces drames ne font que s'ajouter à tous ceux qui se déroulent, dans l'indifférence, depuis plus de vingt ans ; Fortress Europe enregistre 17 317 décès documentés depuis 1988. Mais combien d'autres victimes invisibles de la politique européenne de lutte contre l'immigration qu'elle appelle illégale ?

De ces naufrages, des épaves transformées en cercueils flottants d'hommes, de femmes et d'enfants morts d'épuisement, de faim et de soif après de longues dérives en mer, l'opinion a pris l'habitude. Elle a pu croire à leur caractère inéluctable. Elle a pu ignorer que les équipements anti-migratoires de l'agence européenne Frontex étaient forcément les témoins de nombre de ces drames, en Méditerranée comme ailleurs...

Mais la donne a changé depuis qu'une coalition internationale et les forces de l'OTAN interviennent en Libye. Aujourd'hui, awacs, drones, avions, hélicoptères, radars et bâtiments de guerre surveillent tout ce qui bouge en Méditerranée. Ils ne peuvent pas ne pas voir les bateaux des exilés originaires d'Afrique subsaharienne qui cherchent à fuir la Libye. Ils ne peuvent pas ne pas voir lorsque, de Tunisie, du Maroc ou d'Algérie, des jeunes sans espoir s'entassent dans une embarcation fragile pour gagner l'Italie ou l'Espagne.

En n'intervenant pas, ils se rendent coupables de non-assistance à personne en danger. Ceci ne peut rester impuni.

Communiqué du GISTI, 9 juin 2011



NAUFRAGIO DI PANTELLERIA IERI/FOTO EMBLEM





PRESCRIZIONE BREVE L'utilizzatore

iniziale



Andrea Fabozzi

Senza vergogna ma anche senza alapprovato alla camera la legge che cancella il processo Mills. Tutto l'impegno del l'de dell'Italia dei valori è servito solo a rimandare il via libera di un paio d'ore rispetta alle migliori previsioni del centrodestra. Il fragore delle proteste di piaza e gli ardimentosi propositi dei deputati democratici si sono infranti contro la forza dei numeri berlusconiani ma anche contro i limiti delle opposizioni. Pronte a rinunciare a qualche ora di ostruzionismo in cambio della diretta tv e alla fine incapaci di bloccare davvero l'aula.

> rubygate Le sue

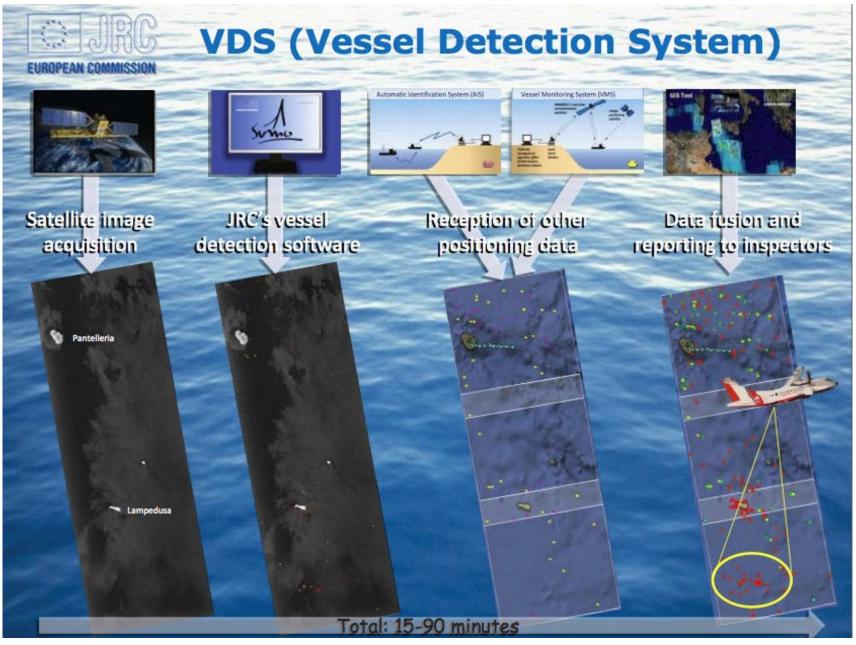
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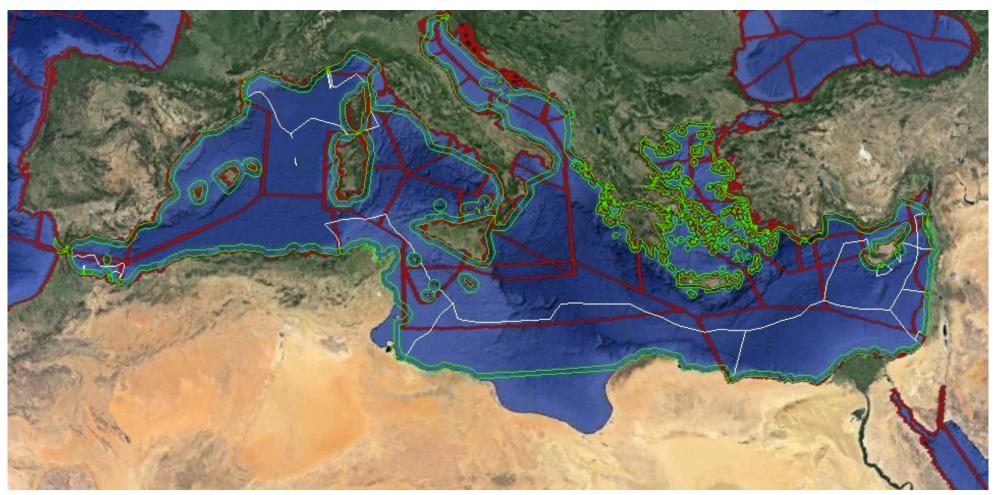
Ida Dominijanni

Sivio Bedusconi potrà pure scampada con la prescrizione breve e col processo lungo sui casì Mills e Mediatrado. Potrà perfino riuscire, grazie al genio dei suoi avvocati, alla servitti della sua corte e al potere del suo danato, a costruire, nel processo Ruby, ce una verti à guidiziaria diversa dalla verità effettiva di sia che esse raramente coincidono. Il sia o della suo corte al rimoni. Donne. E il punto cruciale su cui ha sbagliato i suoi calcoli: el suo bambinenon sono tutte a sua disposizione. Quale che sarà la vertità giudiziaria, è firmata da loro la sua fine politica. E con la sua fine politica, la fine di un'epoca, di un'esteica.

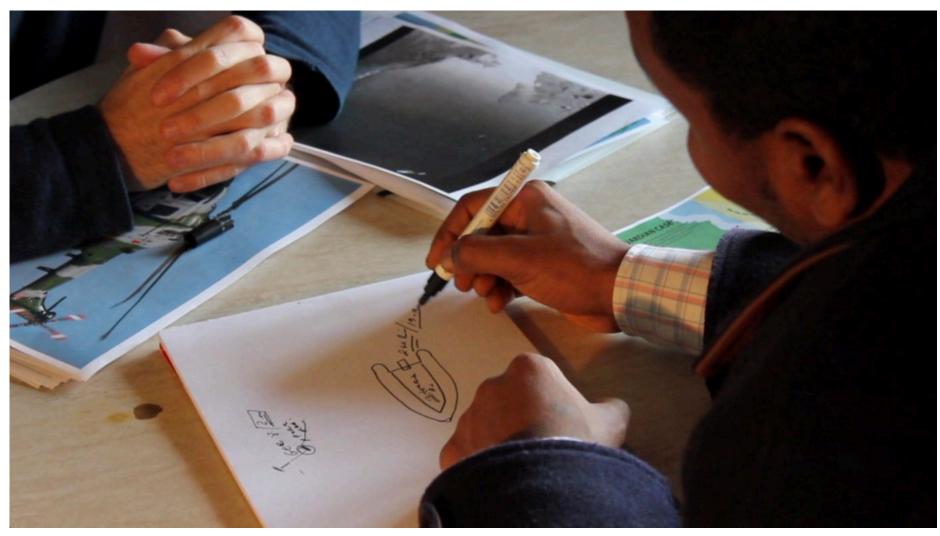
II Manifesto, 14 April 2011.



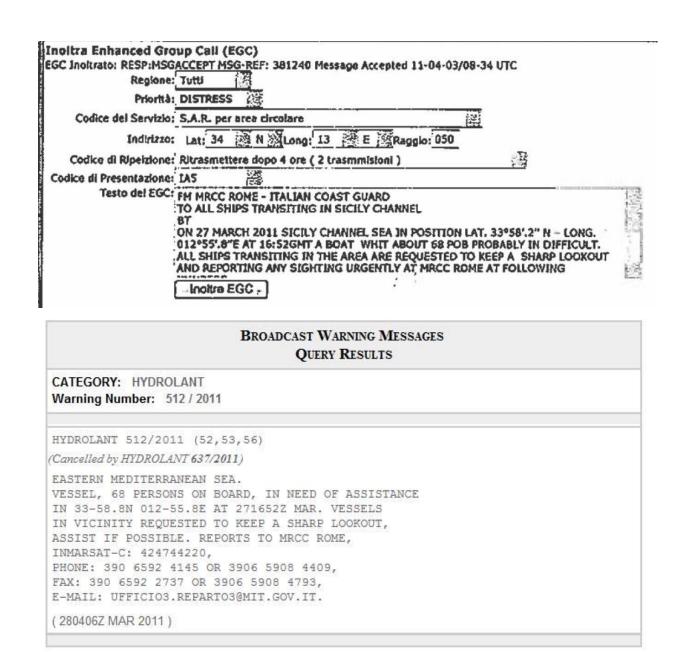
Space-based surveillance tools for fisheries control, JRC, 2012



Mediterranean legal boundaries, watchthemed.net



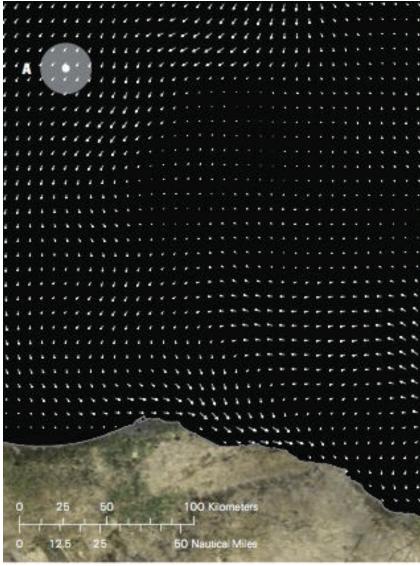
Dan Haile Gebre, interview December 2011



Distress signals

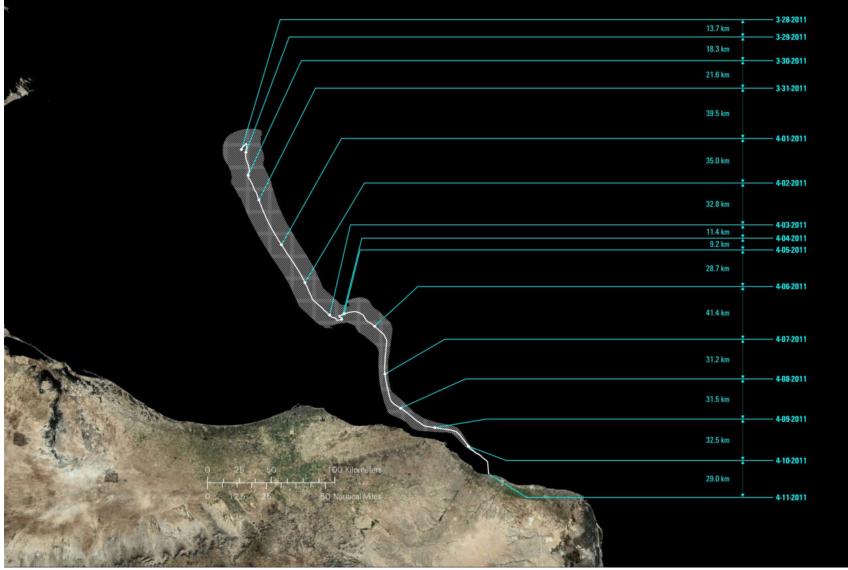


Picture of the "left-to-die boat" taken by a French patrol aircraft, PACE, 2012

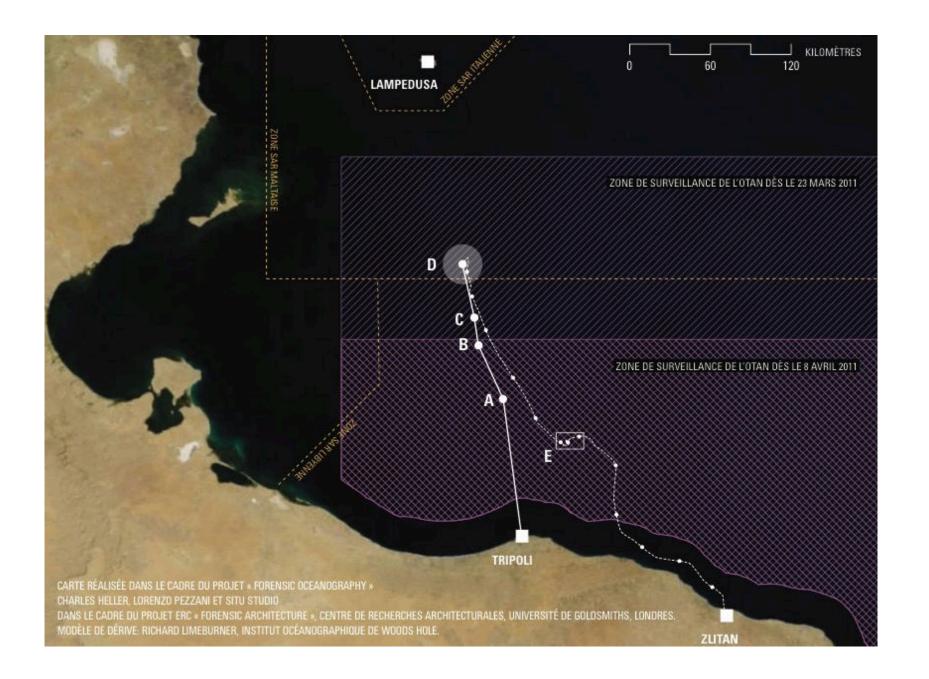


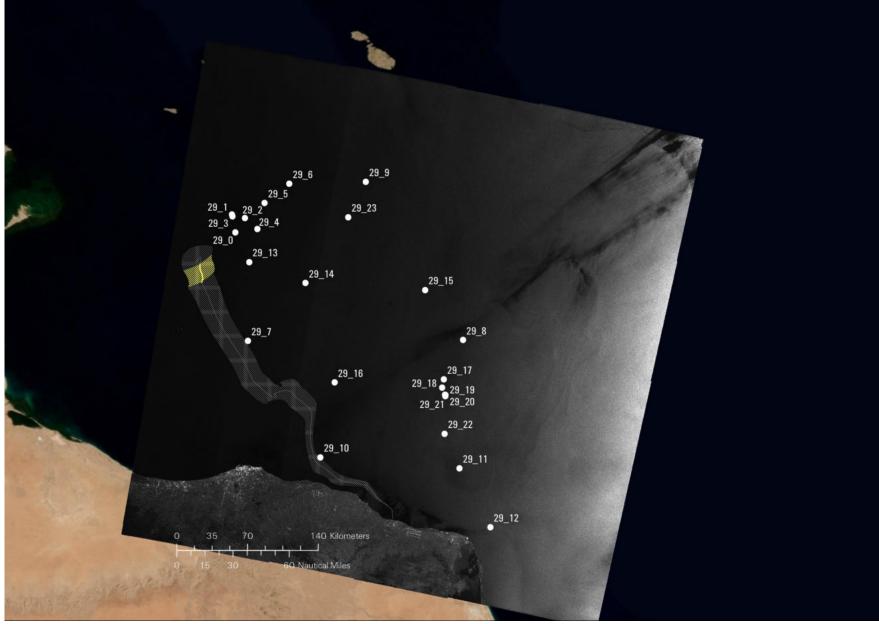


Drift model



Drift model timeline

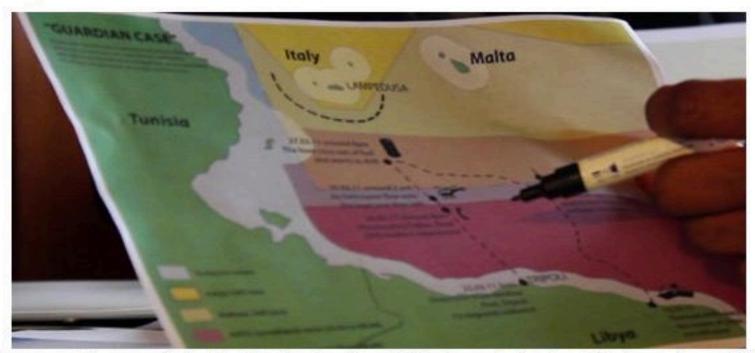




SAR image analysis, 29 March 2011

Death of 63 migrants in the Mediterranean: Complaint in France holds the French military to account

11 April 2012

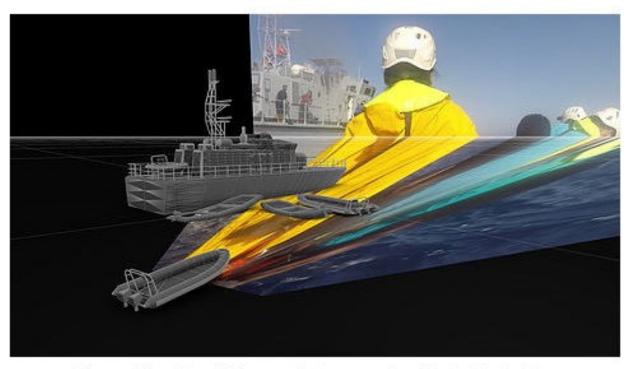


One year after events that led to the deaths of 63 migrants in a boat in the waters off the coast of Libya, 4 survivors, with the support of a coalition of NGOs, filed a complaint in France concerning the responsibility of the French military for failing to assist persons in danger.

Legal complain France, 11 April 2012

Legal action against Italy over its coordination of Libyan Coast Guard pullbacks resulting in migrant deaths and abuse.

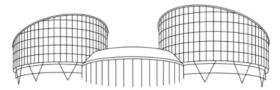
May 8, 2018



Screengrab from Forensic Oceanography's reconstruction of fatal maritime incident



Intercepted passengers being dissembarked in Libya from the Italian patrol vessel « Bovienzo », May 2009. Enrico Dagnino, Paris Match.



EUROPEAN COURT OF HUMAN RIGHTS COUR EUROPÉENNE DES DROITS DE L'HOMME

GRAND CHAMBER

CASE OF HIRSI JAMAA AND OTHERS V. ITALY

(Application no. 27765/09)

JUDGMENT

Strasbourg

23 February 2012



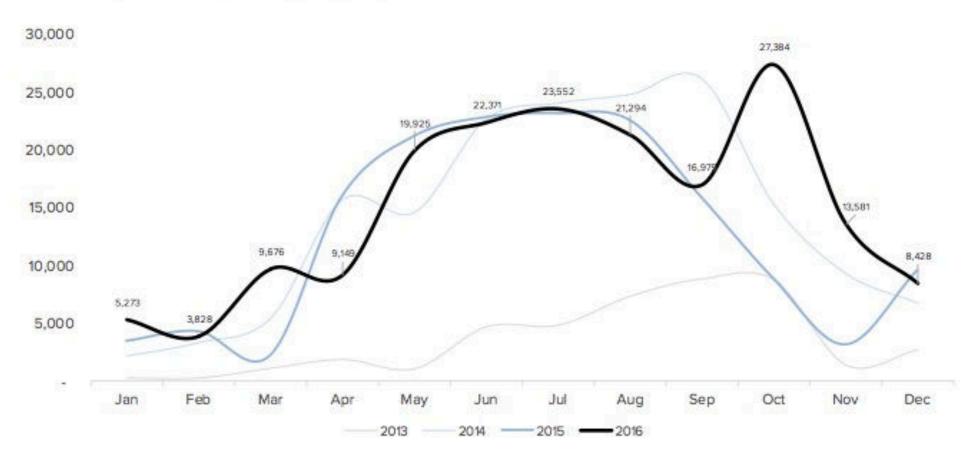


March of Hope, September 2015



Ahmet Davutoglu and Donald Tusk, 07.03.2016

MONTHLY SEA ARRIVALS IN ITALY 2013 - 2016



UNHCR data, 2013-2016

"To effectively cope with this current situation, part of the answer must lie in the Libyan authorities preventing smugglers from operating, and for the Libyan Coast Guard to have the capacity to better manage maritime border and ensure safe disembarkation on the Libyan coast. Of course, the Libyan authorities' effort must be supported by the EU and Member States notably through training, providing advice, capacity building and other means of support. Working together in their respective zones and within their respective mandates, Sophia and Triton could focus on antismuggling activities and support to search and rescue operations further out at sea and specialise in monitoring, alerting the Libyan authorities and combating traffickers. Recognising the central role that the Libyan Coast Guard should play in managing the situation, building its capacity is a priority, both in terms of capabilities and equipment needs."

European Commission and High Representative of the Union for Foreign Affairs and Security Policy, 'Migration on the Central Mediterranean route: Managing flows, saving lives', Brussels, 25.1.2017 JOIN(2017) 4 final



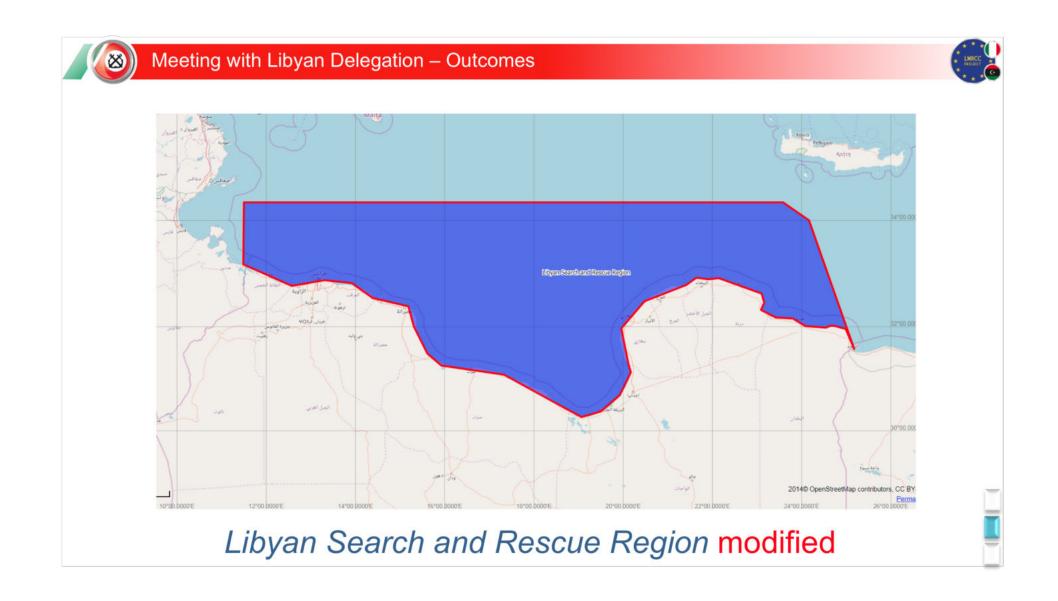




Italian Interior Minister Marco Minniti speaks to the media after handing over boats that were repaired in Italy, to the Libyan navy at Tripoli naval base, Libya, May 15, 2017. REUTERS/Ismail Zitouny

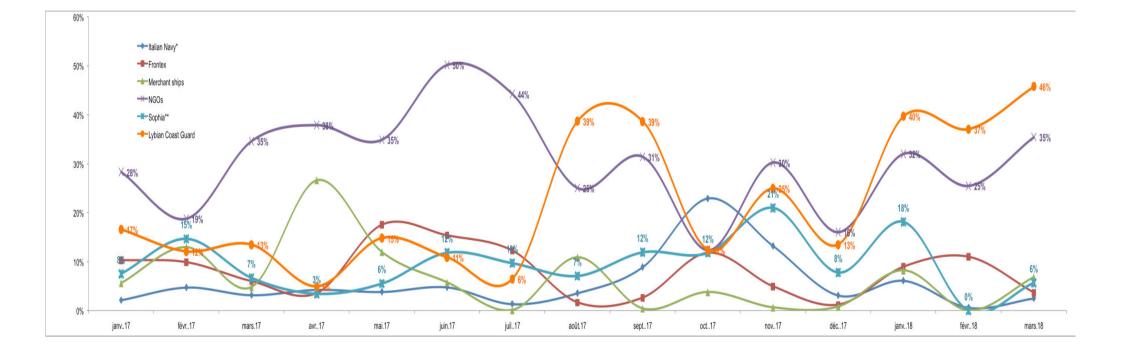
OMS – Area of Operations

Command in Chief of the Italian Fleet Up to 4 SHIPS (3 at sea plus 1 in high readiness status) **Up to 4 HELICOPTERS** Ελλάς Greece 600 and more men and women at sea with an optempo related to weather Aenvo conditions and intel information (70% at Sea 30 % in harbour) Siracusa Malta SID MediteMARE SICURO and ZUWARAH Stores of Stallab SABRATAN BenghLizi Sirte

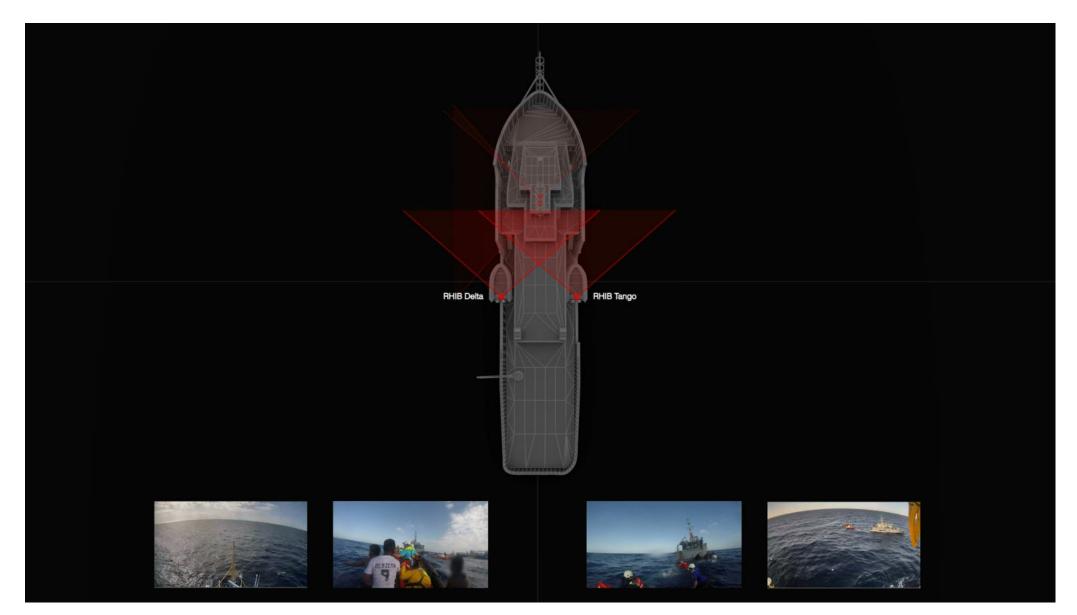


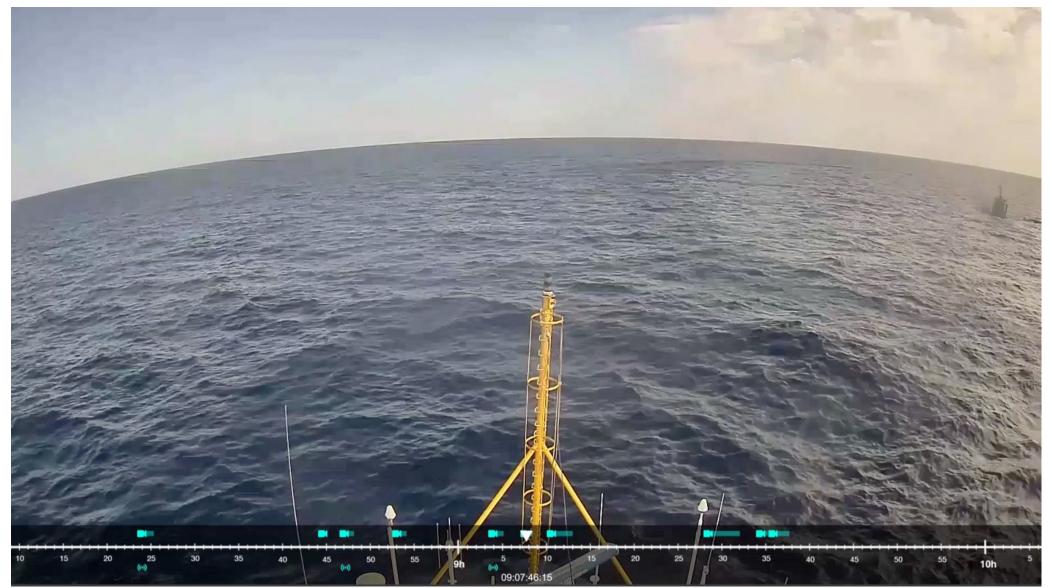


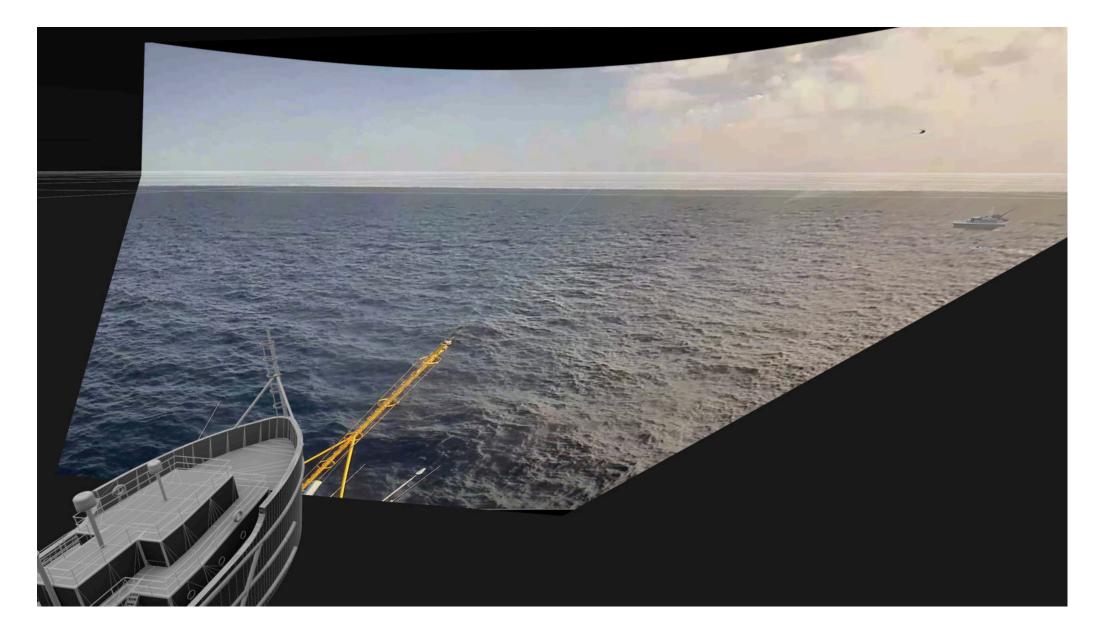
Migrants being intercepted by a Libyan coast guard vessel on 27 September 2017, with the Italian warship Andrea Doria in the background; the migrants were handed the life jackets by the Italian Navy before they were intercepted. Filmed by Vice News

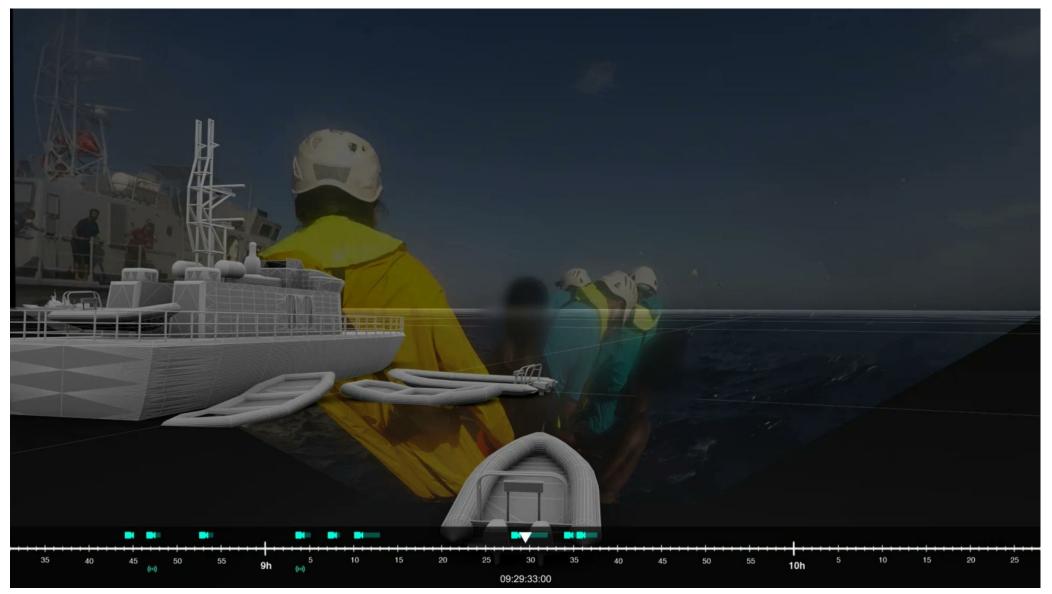


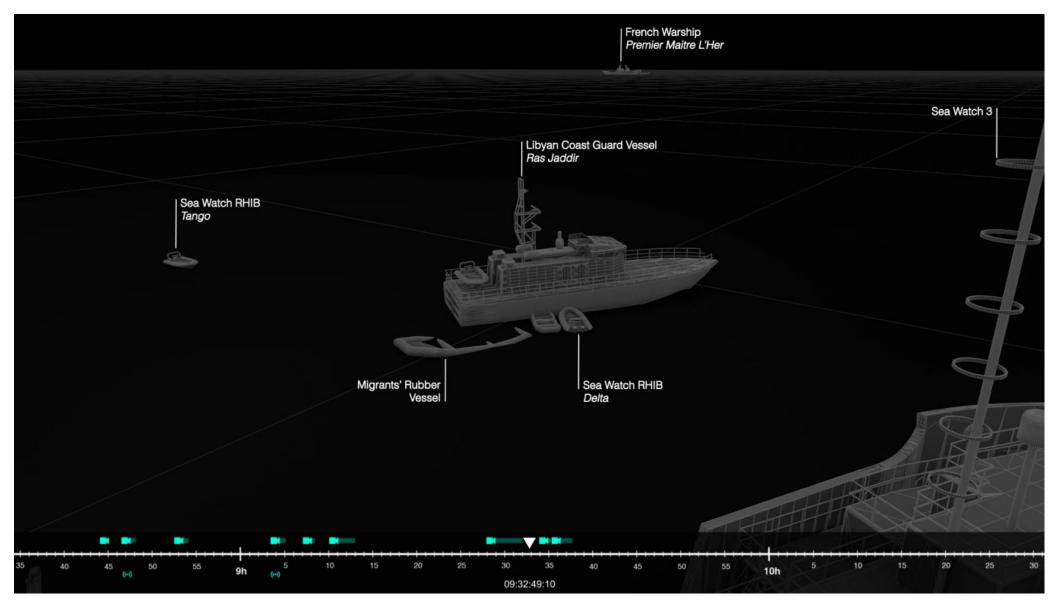




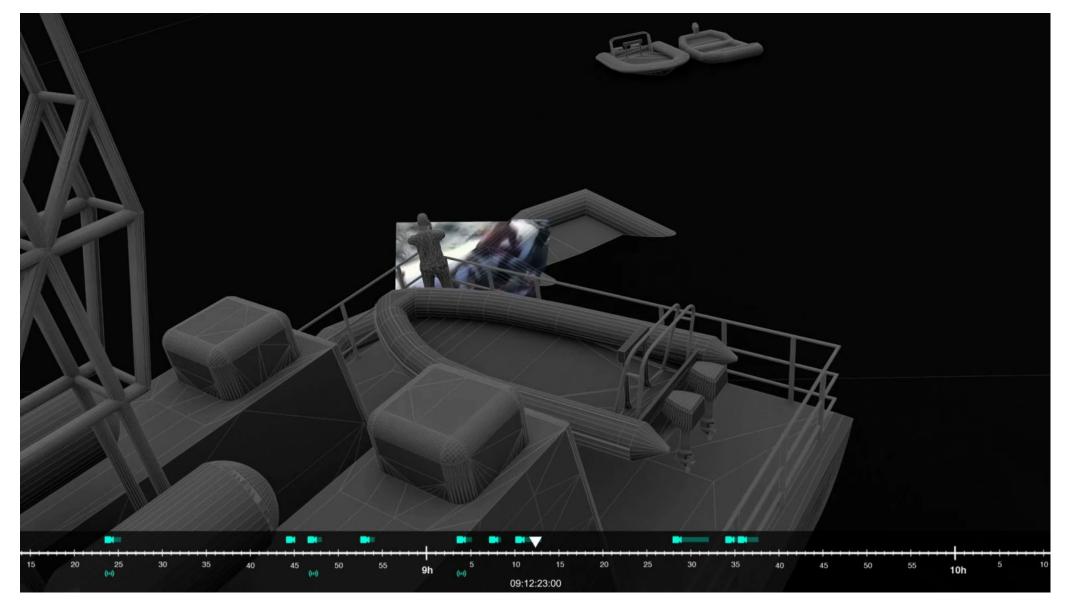






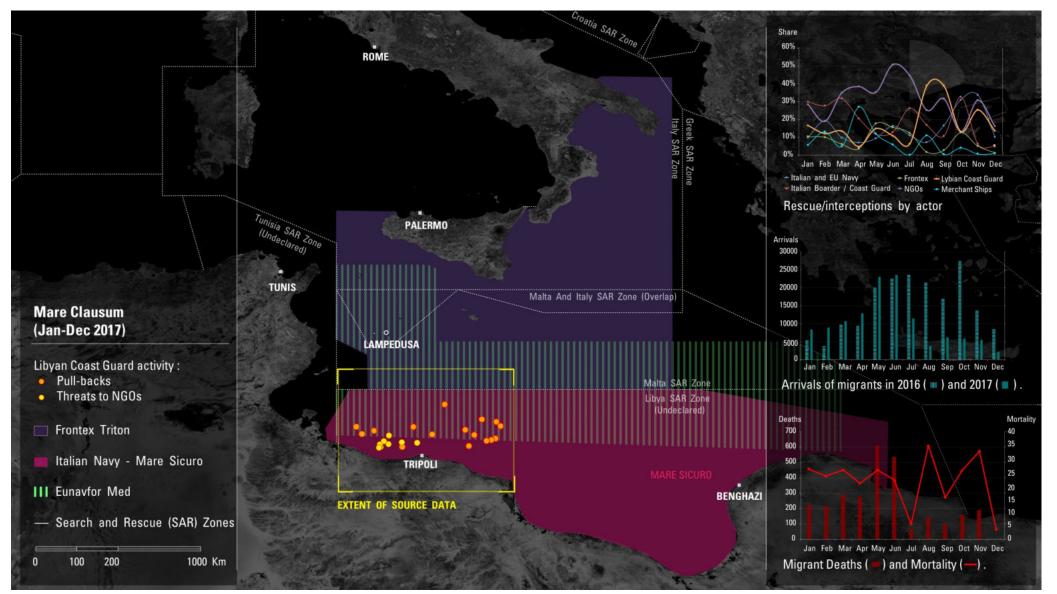








Video showing the survivors disembarking in the port of Tripoli, Lcna Libya, 6 November 2017



Synthetic figure of operations and migratory trends in the central Mediterranean, 2017. Figure by Forensic Oceanography. Statistical analysis by Gian-Andrea Monsch, GIS analysis by Vanessa Guglielmi, design by Samaneh Moafi.

German Law Journal (2020), 21, pp. 385-416 doi:10.1017/glj.2020.25 CAMBRIDGE UNIVERSITY PRESS

ARTICLE

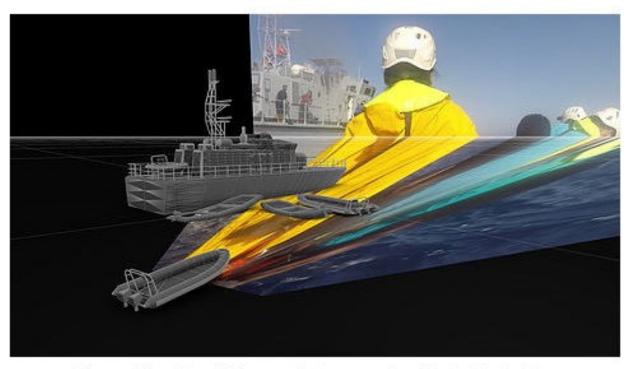
The Architecture of Functional Jurisdiction: Unpacking Contactless Control—On Public Powers, S.S. and Others v. Italy, and the "Operational Model"

Violeta Moreno-Lax*

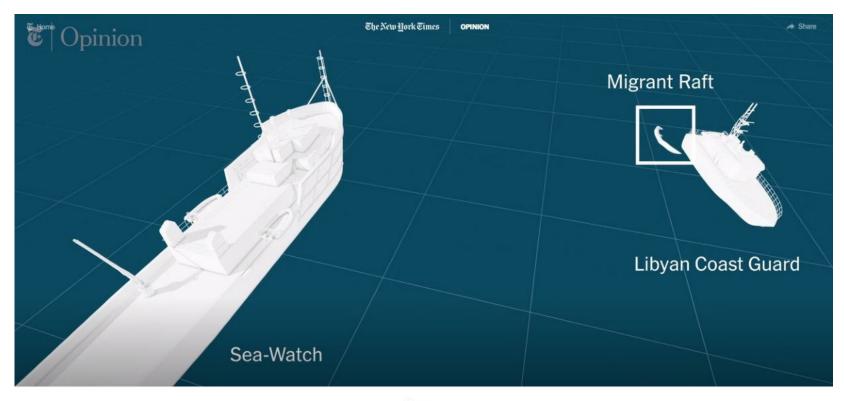
(Received 24 February 2020; accepted 03 March 2020)

Legal action against Italy over its coordination of Libyan Coast Guard pullbacks resulting in migrant deaths and abuse.

May 8, 2018



Screengrab from Forensic Oceanography's reconstruction of fatal maritime incident



Opinion

'It's an Act of Murder': How Europe **Outsources Suffering as Migrants Drown**

This short film, produced by The Times's Opinion Video team and the research groups Forensic Architecture and Forensic Oceanography, reconstructs a tragedy at sea that left at least 20 migrants dead, Combining footage from more than 10 cameras, 3-D modeling and interviews with rescuers and survivors, the documentary shows Europe's role in the migrant crisis at sea.

PRODUCER

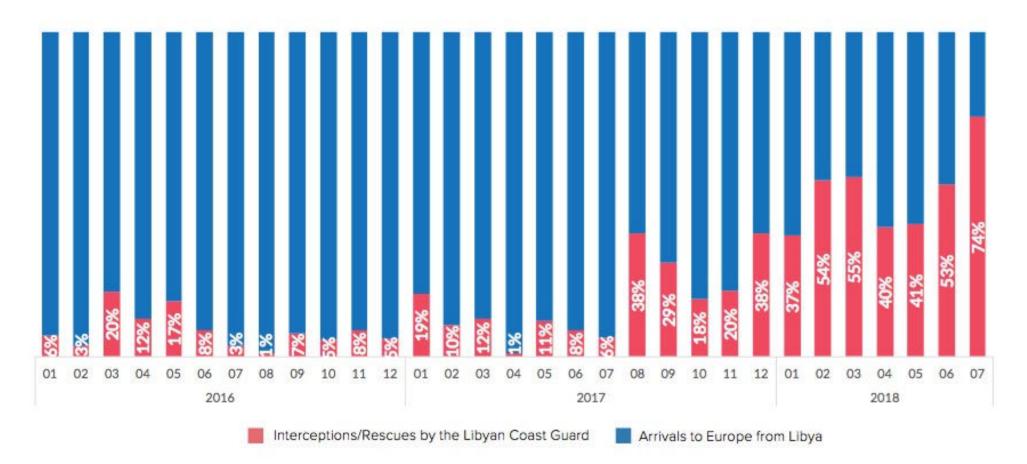
By Charles Heller, Lorenzo Pezzani, Itamar Mann, Violeta Moreno-Lax and Eyal Weizman

ASSISTANT PRODUCER Taylor Adams Leah Varjacques EXECUTIVE PRODUCER EDITOR Adam B. Ellick Kristin Bye

HELLER, Ch. MANN, I. MORENO-LAX, V., PEZZANI, L. WEIZMAN, E. (2018) 'It's an Act of Murder'. New York Times, 26 December 2018.

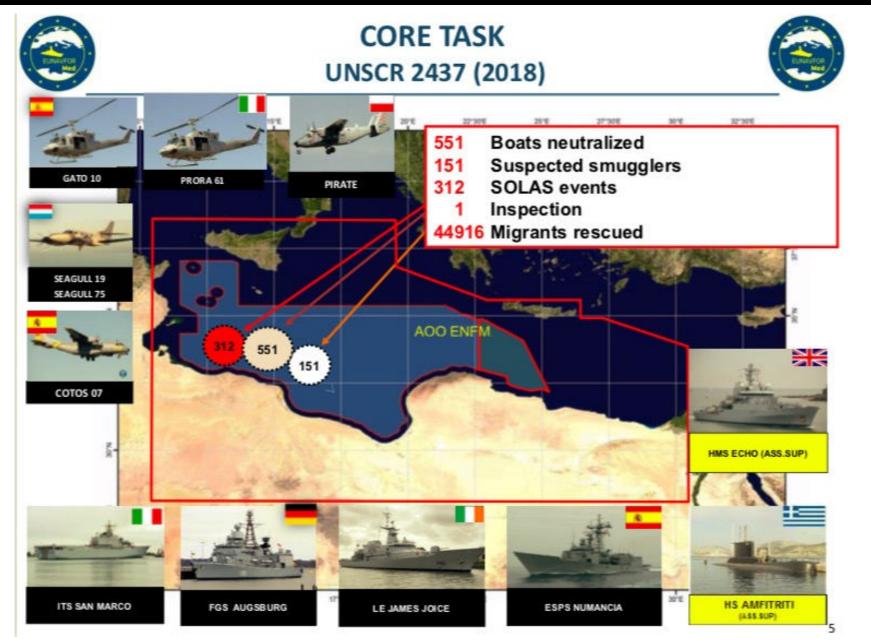


An Italian Coast Guard boat approaches the French NGO "SOS Mediterranee" Aquarius ship, June 12, 2018. Associated Press.



Interceptions/rescues by the Libyan Coast Guard in relation to arrivals to Europe from Libya | 2016-2018

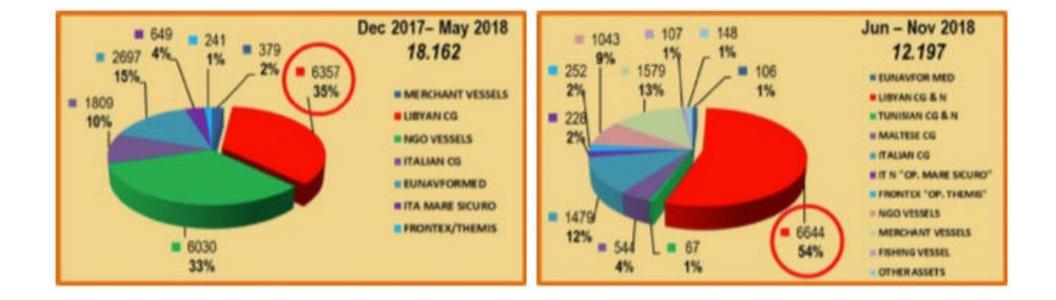
UNHCR, Desperate Journeys, 2018



Slide indicating EUNAVFOR MED naval and air assets. Presentation by Rear Admiral Enrico Credentino, the European Parliament, 10 October 2018, Brussels



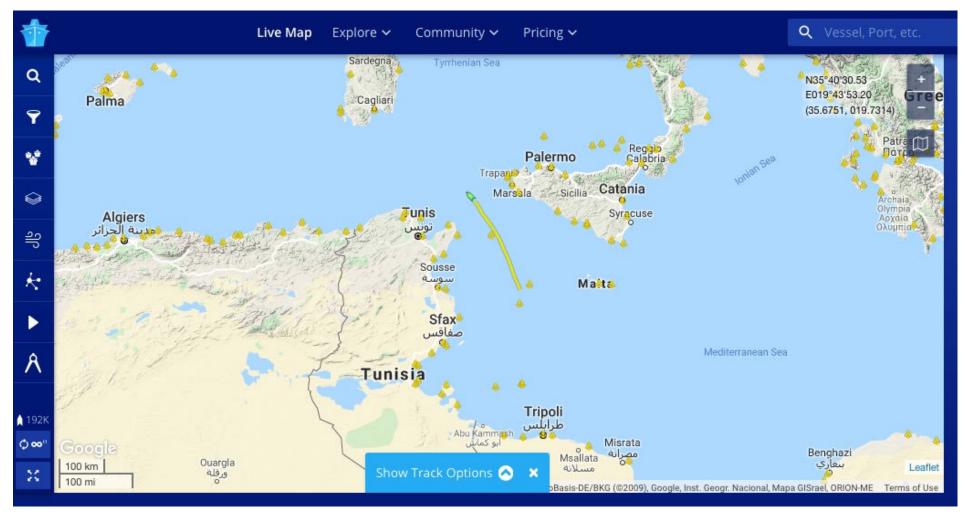
Migrants being disembarked from OOC Emerald on 12 March 2019. Photograph: Libyan Coast Guard.



Statistical graph indicating the share of rescues/interceptions per actor in the central Mediterranean. EUNAVFOR MED Op SOPHIA - Six Monthly Report 1 June - 30 November 2018, Part B, 18 January 2019, p. 2.



The Nivin, June 2018. Photograph: Emmanuel.L



The Nivin, AIS track, 18.12.2019. Marinetraffic.com



Synthetic map of the 7 November 2018 Nivin incident.



The Spanish aircraft Vigma photographed as it returned from its EUNAVFOR MED mission on 17 November 2018

Email sent at 20:14 UTC to MRCC Rome and AFM Malta:

Urgent distress: 100pl including 5 women and 3 children in the Central Mediterranean To itmrcc@mit.gov.it

Distress call from Thuraya: + 88 216 2101 0449

Position: 33° 22' 12.3" N, 14° 23' 22.3" E

We received a call from a boat which is in distress. It embarked in Kumut, Libya at around 11pm 6th November CEST.

There are around 100 persons on board, including 5 women and 3 children.

Their current position is 33° 22' 12.3" N, 14° 23' 22.3" E and the telephone number on board is + 88 216 2101 0449.

Additional information: it is a rubber boat which the people on the boat said was in bad condition.

If you add also SAR NGOs: We informed the NGO Mario Junio in the vicinity as well. They are urgently asking for help.

Thank you for your attention, Watch the Med - Alarmphone

Emai sent by Alarm Phone to Italian coast guard at 20:14 UTC

```
"maricogecap@DISTRESS" <maricogecap@DISTRESS>
From:
         "437472910@csat.srmsitalia.interbusiness.it" <437472910@csat.srmsitalia
To:
.interbusiness.it>
Subject: sar case 937
Date:
         07/11/2018 19:39:00
   IMRCC ROME - ITALIAN COAST GUARD
FM
TO M/V NIVIN
               INMARSAT C 437472910 437472911
BT
ON BEHALF OF LIBYAN COAST GUARD FOR SAFETY OF LIFE AT SEA PLEASE DIVERT YOUR COU
RSE AND PROCEED TO THE MAXIMUM SPEED TO LAT. 33 39N LONG.
                                                             014 39E AT 1810UTC
O RENDER ASSISTANCE TO
                       A
                          BOAT
                                IN
                                  DISTRESS WITH ABOUT 70 PEOPLE ON BOARD.
PLEASE CONTACT URGENTLY
                        JRCC
                              TRYA
                                    THROUGH
                                                 MRCC AT FOLLOWING NUMBERS:
                                            THIS
TELEPHONE NUMBERS ARE : 0039 06 5924145
                                          06 59084409
FAX NUMBERS
             ARE
                                : 0039 06 5922737
                                                   06 59084793
         "C" IS
INMARSAT
                                     : 424744220
EMAIL IS
                                            : itmrcc@mit.gov.it
BEST REGARDS
BT
++++
```

Distress signal send at 19:39 UTC by the Italian Coast Guard "on behalf of Libyan Coast Guard" to the captain of the Nivin

From: Libyan Navy Date: Wed, 7 Nov 2018 21:34 +0100 Msg: AMOS-1312763885 Subject: RUBBER BOAT IN DISTRESS To: master.nivin1@amosconnect.com Cc: cincnav.uss@marina.difesa.it Cc: Cincnav.Coan@Marina.Difesa.It Cc: COMANDO MARICOGECAP Cc: EUNAVFORMED\\FHQ\\CJ3-06 BWC Cc: RCC Malta at AFM

Good evening Sir,

I am the Libyan Coast Guard, the authority responsable for SAR operations in area.

I take the responsability of the coordination of this SAR event:

- rubber boat in PSN: 33 40N 014 38E,
- 70 people on board
- not good buoyancy conditions.

MRCC Rome informed me that you have received my request of cooperation and you are sailing towards this contact.

As Libyan Authority I order you to rescue the people of rubber boat in distress. I will provide iyou nstruction for disembarcation.

Please aknowledge this message.

Regards.

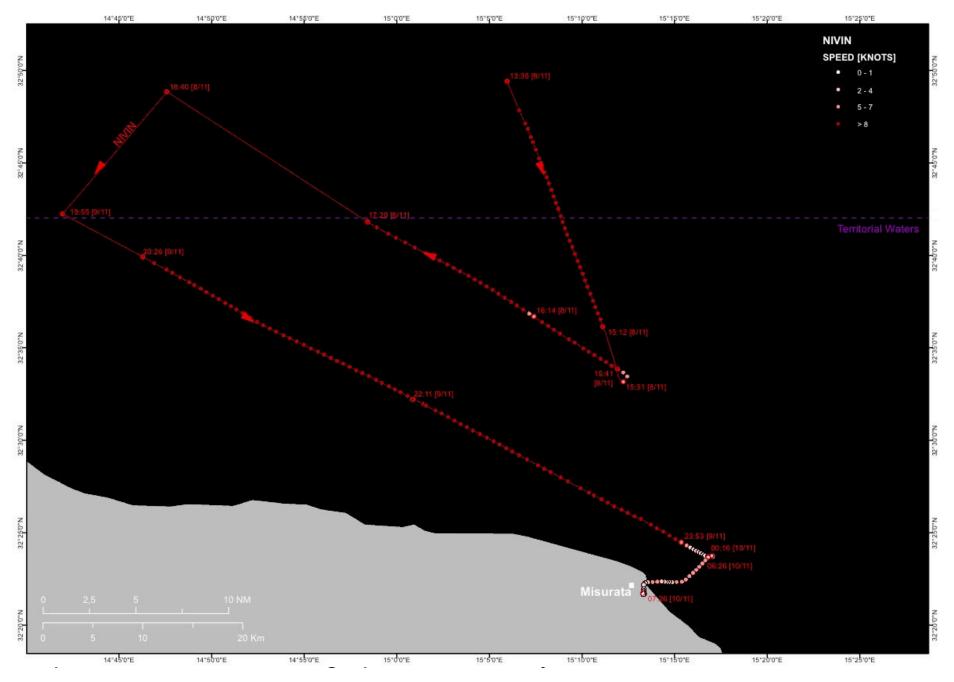
*Libyan Navy Coast Guard * *Libyan Naval Communication Centre*

القوات البحرية اليبيا

e-mail: libyan.naval.comms.centre@gmail.com



Libyan Navy officer on board the Italian Navy ship Caprera docked in the port of Tripoli, March 2018. Photographs: Italian Navy



AIS map of the 7 November 2018 Nivin incident.



The captured migrants hiding in the hold of the Nivin. Photograph taken by the passengers using a mobile phone and sent to Informigrants.net

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Photograph taken by a passenger onboard the Nivin, as Libyan Security Forces arrived on the morning of 20 November 2018, and sent to journalist Francesca Mannocchi.



Rubber bullet extracted from SDG's leg in the hospital of Misrata in June 2019. The bullet has a diameter of approximately 17mm, and its plastic case (also removed from SDG's leg), is 17mm wide and 27mm long.

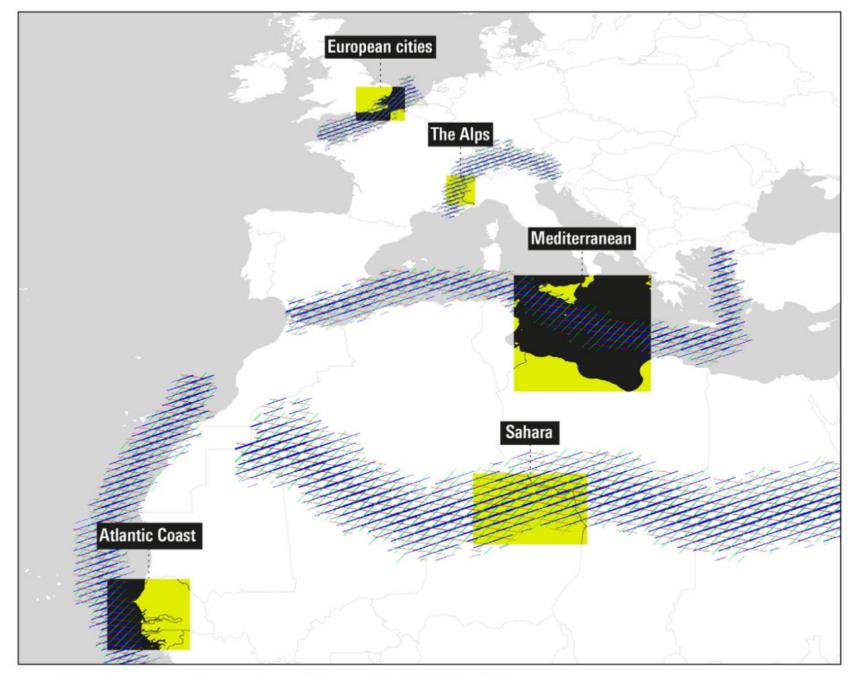


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PRIVATISED MIGRANT ABUSE BY ITALY AND LIBYA

Photo: Migrants sleeping aboard the Nivin



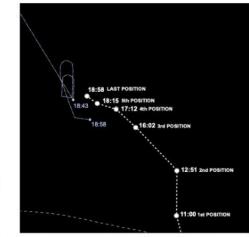
Border zones investigated by BF in 2021-2023.



A migrants' boat is blown up by a nearby military vessel after a rescue operation. Photo: Médecins Sans Frontières (MSF).

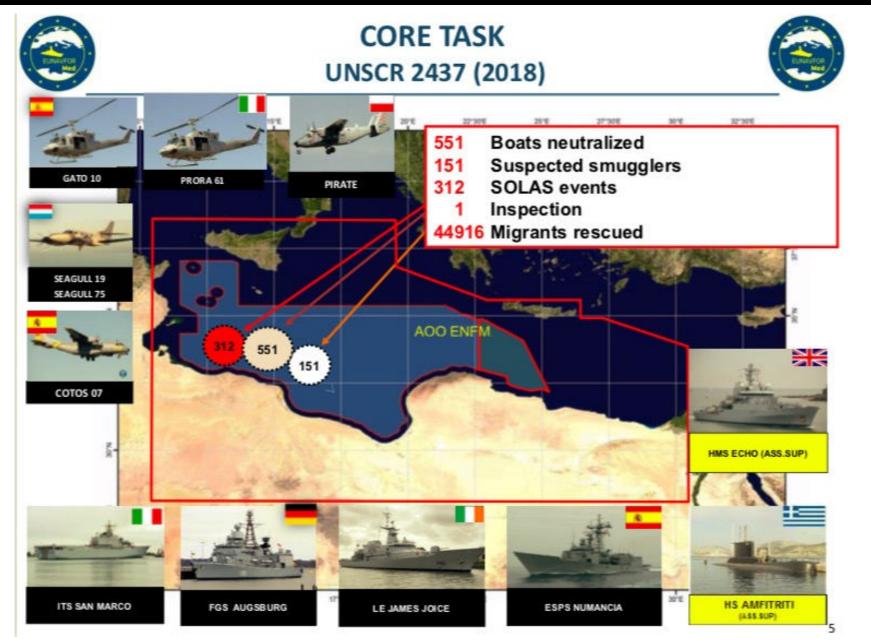
TIMELINE

Prototype of platform collecting EU surveillance aircraft tracks by BF researcher Giovanna Reder.



Map indicating the migrants' boats' positions before the shipwreck and the track of Frontexoperated plane Osprey 1 on 21st of April 2021. Border Forensics, 2021.

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Slide indicating EUNAVFOR MED naval and air assets. Presentation by Rear Admiral Enrico Credentino, the European Parliament, 10 October 2018, Brussels

FRONTSX

Concept

Implementation

Conclusion



